

Serial No. 10/611,563
Atty. Docker No. 60655.0100

In the Claims

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This listing of claims replaces all prior versions and listings of the claims in the application.

1. (CURRENTLY AMENDED) A card comprising:

at least one of a translucent and transparent card surface layer; overlaying a transponder system;

a machine recognizable compound containing an infrared blocking material, said machine recognizable compound substantially uniformly associated with a portion of said card surface layer; and

a first transponder associated with said card layer, said first transponder responsive to a first RF interrogation signal, wherein said transponder system is operable to receive a first RF interrogation signal, authenticate said first RF interrogation signal, and transmit a transponder system account data, said transponder system comprising:

- i. a first transponder responsive to said first RF interrogation signal;
- ii. a transponder system authentication circuit, said authentication circuit in communication with said first transponder for authentication of a first verification data; and
- iii. a transponder system database for storing said transponder system account data, said transponder system database in communication with said first transponder.

2. (ORIGINAL) The card of claim 1, wherein said card is at least one of a transaction card, identification card, smartcard, credit card, charge card, debit card, access card, information storage card, and electronic commerce card.

3. (CURRENTLY AMENDED) The card of claim 1, wherein said machine recognizable compound is extrusion coated to at least one of said translucent and transparent card surface layer.

4. (CURRENTLY AMENDED) The card of claim 1, wherein said first transponder is operable to receive said first RF interrogation signal, authenticate said first RF interrogation signal, and transmit a transponder account data, said card further comprising:

Serial No. 10/611,563
Atty. Docket No. 60655.0100

- i. a transponder authentication circuit in communication with said first transponder for authentication of a first verification data; and
 - ii. a transponder database for storing said transponder account data, said transponder database in communication with said first transponder at least one of said translucent and transparent card surface layers comprises a plurality of perforations.
5. (CANCELLED)
6. (CANCELLED)
7. (CURRENTLY AMENDED) The card of claim 4, further comprising:
a second transponder associated with said card surface layer configured to overlay a said second transponder system responsive to a second RF interrogation signal, said second transponder system operable to receive a second RF interrogation signal, authenticate said second RF interrogation signal, and transmit said transponder system account data, said second transponder system comprising a second transponder responsive to said second RF interrogation signal, wherein such transponder system ; and
an authentication circuit is configured for authenticating a second verification data, said authentication circuit in communication with said second transponder.
8. (CURRENTLY AMENDED) The card of claim 1, further comprising a plurality of layers wherein a first layer comprises a first polymer and at least a second card layer comprising at least one of a translucent and transparent polymer comprises a second polymer wherein said plurality of layers is one of a transparent and translucent layer.
9. (ORIGINAL) The card of claim 1, wherein said machine recognizable compound includes at least one of a chemical, solution, dye, layered material, pigment, encapsulated pigment, coating, film, thread, plastic, ink, concentrate, thermoplastic matrix, thermoset matrix, fiber, paper, and planchette.
10. (CURRENTLY AMENDED) The card of claim 1, wherein said machine recognizable compound includes at least one of an invisible, visible and colored compound.
11. (ORIGINAL) The card of claim 1, wherein said machine recognizable compound includes an infrared ink.

Serial No. 10/611,563
Atty. Docket No. 60655.0100

12. (ORIGINAL) The card of claim 1, wherein said machine recognizable compound includes an infrared ink comprising in the range of about 0.001 to 40.0 wt.(%) of an infrared activated material.
13. (ORIGINAL) The card of claim 1, wherein said machine recognizable compound includes an optically recognizable compound.
14. (PREVIOUSLY PRESENTED) The card of claim 1, wherein said machine recognizable compound is configured to at least one of block, diffuse, reflect, refract and absorb infrared light.
15. (CURRENTLY AMENDED) The card of claim 1, wherein said machine recognizable compound includes at least one of a binder, UV absorber, reflector, antioxidant, optical brightener, color shifter, chemical configured to improve processing, and chemical configured to adjust rheological theological properties.
16. (CANCELLED)
17. (CANCELLED)
18. (CANCELLED)
19. (ORIGINAL) The card of claim 1, wherein said machine recognizable compound includes PET plastic.
20. (CANCELLED)
21. (CANCELLED)
22. (CANCELLED)
23. (PREVIOUSLY PRESENTED) The card of claim 1, further comprising a second transponder responsive to a second RF interrogation signal, said first RF interrogation signal different from said second RF interrogation signal.
24. (CURRENTLY AMENDED) The card of claim 23, ~~wherein said transponder system further including includes~~ a transponder system protocol/sequence controller configured to control the order of operation of said first transponder, said second transponder, said transponder system authentication circuit, and said transponder system database, said protocol/sequence controller in communication with at least one of said first transponder,

Serial No. 10/611,563
Art. Docket No. 60655.0100

said second transponder, said transponder system authentication circuit, and said transponder system database, ~~said transponder system protocol/sequence controller.~~

25. (CURRENTLY AMENDED) The card of claim 24, wherein ~~said transponder system further comprising comprises~~ at least one of a first transponder system antenna and a second transponder system antenna, said first transponder system antenna configured to receive said first RF interrogation signal, and said second transponder system antenna configured to receive said second RF interrogation signal.
26. (CURRENTLY AMENDED) The card of claim 24, wherein ~~said transponder system protocol/sequence controller is responsive to at least one of said first RF interrogation signal and said second RF interrogation signal, said transponder protocol/sequence controller controlling the sequence of operation at least one of said transponder system authentication circuit, and said transponder system database, in response to at least one of said first RF interrogation signal and said second RF interrogation signal.~~
27. (CURRENTLY AMENDED) The card of claim 24, wherein ~~said transponder system protocol/sequence controller is configured to activate said transponder system authentication circuit in response to said first RF interrogation signal, said transponder system authenticating authentication circuit configured to provide an encrypted RF interrogation signal, said transponder system authentication circuit configured to provide said encrypted RF interrogation signal to said first transponder for providing to a RFID reader.~~
28. (CURRENTLY AMENDED) The card of claim 24, wherein ~~said transponder system database is operable to store at least one of a transponder system identification data, a RFID reader decryption security key, and a transponder system account data.~~
29. (CURRENTLY AMENDED) The card of claim 28, wherein ~~said transponder system database is configured to provide said RFID reader decryption security key to said transponder system authentication circuit in response to an encrypted authentication code.~~
30. (CURRENTLY AMENDED) The card of claim 1, wherein ~~said transponder system includes an internal power source.~~
31. (CURRENTLY AMENDED) The card of claim 30, wherein ~~said transponder system includes a biometric circuit, said biometric circuit in communication with said internal power source.~~

Serial No. 10/611,563
Atty. Docket No. 60655.0100

32. (PREVIOUSLY PRESENTED) The card of claim 31, wherein said biometric circuit is configured to provide a biometric data verification response, said biometric circuit configured to provide said biometric data verification response to at least one of said RFID reader and a merchant system, wherein said biometric data verification response is an identification verification data.
33. (CURRENTLY AMENDED) A card comprising:
 - a. at least one of a translucent and transparent card layer surface ~~overlying a transponder system~~;
 - b. a machine recognizable compound substantially uniformly associated with a portion of said card layer surface;
 - c. at least one of a holographic foil, an integrated circuit chip, a magnetic stripe, an opacity gradient, embossed characters, signature field, and text and logo in communication associated with said card layer surface; and
 - d. ~~a~~ an RF transponder associated with said card layer and operable to receive a first RF interrogation signal, and to authenticate said first interrogation signal, ~~said transponder system comprising a RFID circuitry including a first transponder responsive to a first RF interrogation signal~~.
34. (PREVIOUSLY PRESENTED) The card of claim 33, wherein said card is at least one of a transaction card, identification card, smartcard, credit card, charge card, debit card, access card, information storage card, electronic commerce card, document and paper.
35. (PREVIOUSLY PRESENTED) The card of claim 33, wherein said machine recognizable compound includes at least one of a coating, film, thread, plastic, ink, fiber, paper, and planchette.
36. (CURRENTLY AMENDED) A card comprising:
 - a. at least one of an opaque, translucent and transparent card layer surface;
 - b. a machine recognizable compound containing an infrared blocking material substantially coextensive with ~~covering~~ said card layer surface;
 - c. a holographic foil associated with said card layer;
 - d. an integrated circuit chip associated with said card layer;
 - e. a RFID circuitry circuit associated with said card layer; and

Serial No. 10/611,563
Atty. Docket No. 60655.0100

- f. a magnetic stripe associated with said card layer.
37. (CURRENTLY AMENDED) A process method for fabricating a card including placing a substantially continuous IR film between two layers of PET GS and incorporating RFID circuitry between the said two layers.
38. (CURRENTLY AMENDED) The process method of claim 37, comprising providing chemical deposition by at least one of vacuum coating, solar coating and Magnetron sputtering, providing a laminate, providing a core layer and adhering the said layers of the said card with adhesive.
39. (CURRENTLY AMENDED) A card, at least a portion of which is substantially transmissive to visible light, comprising:
 - a. at least one of a translucent and transparent card layer surface for overlaying a RFID circuitry;
 - b. a machine recognizable compound containing an infrared blocking material substantially continuously covering said card layer surface, wherein said machine recognizable compound is substantially transmissive to visible light; and
 - c. a RFID circuit in communication associated with said card layer surface, said RFID circuit including a transponder responsive to a first interrogation signal.
40. (CURRENTLY AMENDED) A card at least a portion of which is substantially transmissive to visible light, comprising:
 - a. at least one of a translucent and transparent card layer surface;
 - b. at least one of a holographic foil, an integrated circuit chip, a magnetic stripe, an opacity gradient, embossed characters, signature field, text and logo;
 - c. a machine recognizable compound containing an infrared blocking material substantially continuously covering said card layer surface, wherein said machine recognizable compound is substantially transmissive to visible light; and
 - d. a RFID circuitry associated in communication with said card layer surface, said RFID circuitry including a transponder responsive to a first interrogation signal.
41. (CURRENTLY AMENDED) A process for method of fabricating a card at least a portion of which is substantially transmissive to visible light, comprising:

Serial No. 10/611,563
Atty. Docket No. 60635.0100

- a. placing a substantially continuous machine recognizable compound between at least two layers of PET IR forming a subassembly; and
 - b. placing a RFID circuitry between at least one layer of the PET and the machine recognizable compound.
42. (CURRENTLY AMENDED) A process for method of fabricating a card at least a portion of which is substantially transmissive to visible light, comprising:
- a. placing a substantially continuous machine recognizable compound between at least two layers of PET IR forming a subassembly;
 - b. placing the subassembly between at least two layers of polyvinylchloride; and
 - c. placing a RFID circuitry between at least one layer of the polyvinylchloride and at least one layer of the subassembly.
43. (CURRENTLY AMENDED) The card of claim 1, wherein said transponder system comprises at least one antenna operable to receive said interrogation signal.
44. (CURRENTLY AMENDED) The card of claim 43, wherein said antenna is disposed between at least one of: said machine recognizable compound and at least one of said translucent transparent layer and transparent card layer, said a second card layer and said at least one of translucent transparent layer and transparent card layer, and said machine recognizable compound and said second card layer.
45. (CANCELLED)
46. (CURRENTLY AMENDED) The card of claim 7, wherein at least one of said first transponder system antenna and said second transponder system antenna is disposed between one of said machine recognizable compound and at least one of said translucent transparent layer and transparent card layer.
47. (CURRENTLY AMENDED) The card of claim 1, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
48. (CURRENTLY AMENDED) The card of claim 33, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.

Serial No. 10/611,563
Atty. Docket No. 60655.0100

49. (CURRENTLY AMENDED) The card of claim 36, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
50. (CURRENTLY AMENDED) The card of claim 39, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
51. (CURRENTLY AMENDED) The card of claim 40, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
52. (CURRENTLY AMENDED) The process of claim 41, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
53. (CURRENTLY AMENDED) The process of claim 42, wherein said machine recognizable compound substantially blocks infrared light from being transmitted through said card surface layer.
54. (CURRENTLY AMENDED) A card according to claim 1, wherein said transponder system is configured to provide information in magnetic stripe format.
55. (CURRENTLY AMENDED) A card according to claim 33, wherein said transponder system is configured to provide information in magnetic stripe format.
56. (CURRENTLY AMENDED) A card according to claim 36, wherein said transponder system is configured to provide information in magnetic stripe format.
57. (CURRENTLY AMENDED) A card according to claim 39, wherein said transponder system is configured to provide information in magnetic stripe format.
58. (CURRENTLY AMENDED) A card according to claim 40, wherein said transponder system is configured to provide information in magnetic stripe format.
59. (CURRENTLY AMENDED) A card of claim 1, wherein said machine recognizable compound contains an infrared blocking material substantially covering said card surface layer.

Serial No. 10/611,563
Atty. Docket No. 60655.0100

60. (CURRENTLY AMENDED) A card of claim 33, wherein said machine recognizable compound contains an infrared blocking material substantially covering said card surface layer.
61. (NEW) The method of claim 37, wherein said IR film is substantially coextensive with at least one of said two layers.
62. (NEW) A card comprising:
 - at least one of a translucent and transparent card layer;
 - an infrared blocking material associated with all machine recognizable points of said card layer; and
 - an RFID transponder associated with said card layer.

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